

**From:** [Allen, Diane](#)  
**To:** [Michael Paul](#); [Hanna M. Winter](#); [Labiosa, Rochelle](#); [Oliver, Jacques](#); [Davis, Ifeyinwa](#)  
**Subject:** RE: NSTEMPS slides for Western Nutrient Workshop  
**Date:** Monday, April 23, 2018 7:23:02 AM

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Hi Hanna,  
Mike and I meant to clarify with you on the call last week but forgot: Chlorophyll a in the LWRD dataset is uncorrected, right?  
Thanks!  
Diane

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**From:** Paul, Michael  
**Sent:** Saturday, April 21, 2018 8:12 AM  
**To:** Hanna M. Winter <[HannaW@lummi-nsn.gov](mailto:HannaW@lummi-nsn.gov)>; Rochelle Labiosa <[labiosa.rochelle@epa.gov](mailto:labiosa.rochelle@epa.gov)>; Allen, Diane <[Diane.Allen@tetrattech.com](mailto:Diane.Allen@tetrattech.com)>; Oliver, Jacques <[Oliver.Jacques@epa.gov](mailto:Oliver.Jacques@epa.gov)>; Davis, Ifeyinwa <[Davis.Ifeyinwa@epa.gov](mailto:Davis.Ifeyinwa@epa.gov)>  
**Subject:** RE: NSTEMPS slides for Western Nutrient Workshop  
Hanna  
Hey. These slides (and story) look great – I may steal your version of the simple conceptual model. I like your coloring.  
Answers:

1. Correct. Median (line), interquartile (box), and interdecile (whiskers)
2. mg/L for nutrients, ug/L for chlorophyll
3. No. There were no chlorophyll data in stream STORET I don't think – one of the sides was missing.
4. I am pretty sure that is correct, yes.

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**From:** Hanna M. Winter [<mailto:HannaW@lummi-nsn.gov>]  
**Sent:** Friday, April 20, 2018 9:19 PM  
**To:** Paul, Michael <[Michael.Paul@tetrattech.com](mailto:Michael.Paul@tetrattech.com)>; Rochelle Labiosa <[labiosa.rochelle@epa.gov](mailto:labiosa.rochelle@epa.gov)>; Allen, Diane <[Diane.Allen@tetrattech.com](mailto:Diane.Allen@tetrattech.com)>; Oliver, Jacques <[Oliver.Jacques@epa.gov](mailto:Oliver.Jacques@epa.gov)>; Davis, Ifeyinwa <[Davis.Ifeyinwa@epa.gov](mailto:Davis.Ifeyinwa@epa.gov)>  
**Subject:** NSTEMPS slides for Western Nutrient Workshop

Hi All,

I have a rough draft of my slides for the Western Nutrient Workshop presentation. If you have time on Monday to take a look and provide feedback, I would greatly appreciate it!

I have a couple questions on the data summary slides:

- 1) I want to double-check the percentiles on the box and whisker plots. The thick line is the mean (50th percentile), the box shows the 25th and 75th percentiles, the whiskers are the 10th and 90th percentiles
- 2) I noticed that there are no units listed - it looks like log scale, but I assume the units are mg/L?
- 3) is there a comparison of Lummi data vs. Region streams for chlorophyll?
- 4) I noticed that there are many more chlorophyll results in the comparison chart (shows Lummi and Region) than just for the Region graph in Mike's presentation. Is the difference that the comparison chart shows just chlorophyll a (uncorrected) and in Mike's presentation it shows chlorophyll a corrected for pheophytin?

Thanks for all your help with this and apologies for the late request for slides review and more questions.

Sincerely,

Hanna